**Senior Frontend Software Engineer - Take Home Test**

**Submission instructions:**

Please upload your solution to a private GitHub repo, and share the repo and the link with:

* [jack@poly-ai.com](mailto:jack@poly-ai.com)
* [faizaan@poly-ai.com](mailto:faizaan@poly-ai.com)
* [wing@poly-ai.com](mailto:wing@poly-ai.com)
* [nick@poly-ai.com](mailto:nick@poly-ai.com)

**Question**

Mr Little Z has multiple spaceships in his spaceport, and he finds it hard to keep track of them. He would like to build a web application to help him find the best spaceship for the job each day.

For maximum efficiency, Mr Little Z would like to be able to filter his spaceships on the following attributes:

* Color
* Maximum speed
* The existence of a pulse laser

Build a filtering application where updating the filters should update the list of spaceships shown to the user. You should do all of the filtering on the frontend and use test data (we have provided some in a JSON file).

Your filters should also be contained within the URL, so that you can share the link to your filtered list with Mr Little Z easily.

**Colors**

A spaceship can be multi colored, and will consist of only the following colors: blue, red, yellow, green, silver, black, purple, gray, orange

Mr Little Z needs to be able to choose multiple color options:

* All of the selected colors
* At least one of the selected colors
* None of the selected colors

**Maximum speed**

Maximum speed is an integer between 50 and 200. Mr Little Z needs to be able to choose:

* Less than
* More than
* Between

**Pulse-Laser**

Mr Little Z would like to choose between

* Has pulse laser
* Does not have pulse laser

This app should be built in React, and styled any way you like, other implementation details are up to you. Third party libraries (such as styled-components, react-draggable or framer-motion) are fine to use, but please build the rest of your components from scratch. Please include a README file with instructions for running the application.

Try not to spend longer than 4 hours on this task - if you don’t create every variation of each filter, that’s ok.

**Things we’re looking for:**

* Expertise in React
* Creative and visually appealing design
* Clean self documenting code
* Proficiency in Typescript
* Accessibility considerations